

Aleksandar (“AJ”) Olic

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EDUCATION

Northeastern University, Boston, MA

May 2027

Candidate for Bachelor of Science in Mechanical Engineering, minor in Aerospace Engineering

- **Dean’s list, GPA: 3.65**
- **Courses:** CFD, Heat Transfer, Fluid Mechanics, Dynamics, Aero Prop, Thermodynamics, Probability & Stats.
- **Extracurriculars:** AeroNU, American Society of Mechanical Engineers, FIJI fraternity, IM sports.
- *Global Scholar*, completed a semester in London, UK. Summer 2025 aerospace engineering program in Seattle, WA.

TECHNICAL SKILLS

- **Applications:** SolidWorks, AutoCAD, C++, VectorWorks, MATLAB, Sketchup, ANSYS, MATHCAD, GitLab
- **Mechanics:** Laser cutting, 3D printing, Power tool and soldering experience

WORK EXPERIENCE

MPR Associates, Alexandria, VA, *Co-Op Engineer*

July 2025 – December 2025

- Entrusted with multiple concurrent projects, interacted directly with clients and presented to senior leadership.
- Conducted a System Vulnerability Review for the Reactor Coolant System and the Chemical and Volume Control System at an operating nuclear plant by analyzing 10+ years of plant data (LTAMS, VMAS, CRs, CARs, IRIS), interviewing plant personnel, and benchmarking against industry best practices. Identified critical system vulnerabilities and collaborated with senior engineers to develop recommendations for addressing risks.
- Designed a standardized issue-tracking system using GitLab Flavored Markdown (GLFM) to organize client design changes with a corresponding process flow diagram; identified expanded implementation opportunities.
- Performed verifications on engineering calculations and reports involving seismic analysis, chronic and surface oxidation, structural loads, weld parameters, design changes, and reports regarding industry best practices.

Summit Engineers, Arlington, VA, *Electrical Engineering Intern*

Summer 2022 – Summer 2024

- Marked up and revised electrical plans using VectorWorks, AutoCAD, and by hand.
- Designed lighting and electrical plans for large scale projects, including storage jobs and apartment complexes.
- Calculated load requirements for various buildings’ circuits using reflected ceiling plans.
- Started through PRIME Internship Program, invited to work after the program ended and following summers.

Stantec, Arlington, VA, *Intern*

Summer 2021

- Designed awnings and created sunlight renderings for a new middle school using SketchUp and Sefaira.
- Presented in team meetings to senior management and participated in on-site visits.

PROJECTS

Supersonic Rivet Deformation, *Group Lead*

Summer 2025

- Investigated the aerodynamic impact of rivet protrusions on supersonic airfoils using ANSYS Fluent to assess implications for drag and fuel efficiency.
- Built and troubleshooted 2D supersonic CFD models, validating stagnation points, oblique shock behavior, and inlet shockwave reflections against theoretical predictions.
- Gained hands-on experience with CFD geometry preparation, meshing limitations, and boundary conditions.

Fixed Wing, *Member*

Fall 2024 - Present

- Used SolidWorks, 3D printing, and Laser cutting to build an aircraft with an 800 mm wingspan from scratch.

Autonomous Temperature Sensor, *Project Lead*

Spring 2024

- Designed an automatic temperature sensor using AutoCAD, Arduino, 3D-Printing, SolidWorks, and C++.

LEADERSHIP

United States Soccer Federation (USSF), *Grassroots Soccer Referee*

2017 – Present

- Serve as center and assistant referee for highest level youth soccer matches, including State Cup semifinals.
- Experience in leadership, teamwork (3-man crews), and quick decision-making in high pressure situations.

Arlington Soccer Association, *Youth Soccer Head Coach*

2022–2023

- Volunteer youth soccer coach (U8 and U9 boys and girls), preparing players for academy-level tryouts.

INTERESTS

- **Skills:** Certified PADI Scuba diver, Certified soccer referee, Spanish (Level 4), Serbo-Croatian (basic).
- **Interests:** Aviation, traveling (60 countries on 6 continents), photography, soccer, basketball.